

Amendments to the Specification:

Please replace the current abstract with the following:

The invention relates to an apparatus ~~having means~~ for segmenting a series of 2D or 3D images obtained by monitoring a patient's organ or other body part, where a first segmentation is carried out on a first image of the series of images and wherein the first segmentation is used for the subsequent segmentation of the remainder of images of ~~said- the~~ series of images. ~~In relation to the images said means carry out a~~ A series of transformations are carried out wherein each separate transformation embodies a fitting operation between two images of the series of images, and wherein substantially all images of the series of images are subject of such a transformation. The first segmentation on the first image of the series of images is modified and subsequently applied to any further image of the series of images according to the transformation or sequence of transformations that fits the first image to a further image of the series of images.

Please replace Paragraph 10 with the following paragraph:

The just mentioned advantage is immediately apparent when the method is applied to, or the apparatus operates on series of images that are collected with different means of monitoring selected from the group Magnetic Resonance (MR), Computer Tomography (CT), Nuclear Medicine (NM) and Ultrasound (US). ~~MR, CT, NM and US.~~

Please replace Paragraph 26 with the following paragraph:

It is remarked that the above merely represents one example of executing the transformation as part of the method according to the invention and that there are numerous other ways of executing this transformation within the scope and spirit of the invention as defined ~~fixed~~ by the appended claims.